1 2 3 4 5 6 7	STEPHEN S. SAYAD (State Bar # 104866) DANIEL BORNSTEIN (State Bar # 181711) LARALEI C. SCHMOHL (State Bar # 203319) PARAS LAW GROUP 655 Redwood Highway, Suite 216 Mill Valley, California 94941 Tel: (415) 380-9222 Fax: (415) 380-9233 Attorneys for Plaintiff Whitney R. Leeman, Ph.D.	ENDORSED  San Francisco County Superior Court  MAY 1 6 2005  GORDON PARK-LI, Clerk  BY: GARTH SAYERS  Deputy Clerk
8 9 10		E STATE OF CALIFORNIA TY OF SAN FRANCISCO
11 12 13 14 15 16 17 18	UNLIMITED CIVE WHITNEY R. LEEMAN, Ph.D, an individual )  Plaintiff, )  v. )  ARC INTERNATIONAL NORTH AMERICA ) INC., et al., )  Defendants. )	Case No. CGC-03-418025 (Consolidated Action)  [PROPOSED]-JUDGMENT PURSUANT TO TERMS OF CONSENT JUDGMENT  Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride
<ul> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> </ul>	WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff, )  v. )  ARTLAND, et al., )  Defendants. )	Case No. CGC-03-418034

In the above-entitled action, Plaintiff WHITNEY R. LEEMAN Ph. D. and Defendant ARTLAND, having agreed through their respective counsel that judgment be entered pursuant to the terms of the Consent Judgment entered into by the parties, and after issuing an Order Approving Proposition 65 Settlement Agreement and Consent Judgment on May 16, 2005. IT IS HEREBY ORDERED, ADJUDGED AND DECREED that pursuant to Code of Civil Procedure section 664.5, judgment is entered in accordance with the terms of the Order Approving Proposition 65 Settlement Agreement and Consent Judgment, between the parties. IT IS SO ORDERED. Dated: MAY 1 JAMES J. MOBRIDE Hon. James J. McBride JUDGE OF THE SUPERIOR COURT 

1 2 3 4 5 6 7	STEPHEN S. SAYAD (State Bar # 104866) DANIEL BORNSTEIN (State Bar # 181711) LARALEI C. SCHMOHL (State Bar # 203319) PARAS LAW GROUP 655 Redwood Highway, Suite 216 Mill Valley, California 94941 Tel: (415) 380-9222 Fax: (415) 380-9233 Attorneys for Plaintiff Whitney R. Leeman, Ph.D.	ENDORSED FILED San Francisco County Superior Court  MAY 1 6 2005  GORDON PARK-LI, Clerk BY: GARTH SAYERS  Deputy Clerk					
8							
9	SUPERIOR COURT OF THI	E STATE OF CALIFORNIA					
10	IN AND FOR THE COU	NTY SAN FRANCISCO					
11	UNLIMITED CIVIL JURSIDICTION						
12 13	WHITNEY R. LEEMAN, Ph.D, an individual	Case No. CGC-03-418025 (Consolidated Action)					
14	Plaintiff,	,					
	v. )	[P <del>ROPOSED]</del> ORDER PURSUANT TO TERMS OF CONSENT					
15	,						
15 16	ARC INTERNATIONAL NORTH AMERICA ) INC., et al.,	JUDGMENT					
	INC., et al., )	Date: May 16, 2005					
16	,	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501					
16 17	INC., et al., )	Date: May 16, 2005 Time: 9:00 a.m.					
16 17 18	INC., et al., )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501					
16 17 18 19	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					
16 17 18 19 20	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff, )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					
16 17 18 19 20 21	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff,  v. )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					
16 17 18 19 20 21 22	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff, )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					
16 17 18 19 20 21 22 23	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff,  v. )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					
16 17 18 19 20 21 22 23 24	INC., et al.,  Defendants. )  WHITNEY R. LEEMAN, Ph.D., an individual )  Plaintiff,  v.  ARTLAND, et al., )	Date: May 16, 2005 Time: 9:00 a.m. Dept: 501 Judge: Hon. James J. McBride					

In the above-entitled action, Plaintiff DR. WHITNEY R. LEEMAN Ph. D. and Defendant, ARTLAND, et al. ("Settling Defendants"), having agreed through their respective counsel that judgment be entered pursuant to the terms of the Consent Judgment entered into by the above-referenced parties and attached hereto as **Exhibit A**; and after consideration of the papers submitted and the arguments presented, the Court finds that the settlement agreement set out in the attached Consent Judgment meets the criteria established by Senate Bill 471, in that:

- 1. The health hazard warning that is required by the Consent Judgment complies with Health & Safety Code section 25249.7 (as amended by Senate Bill 471);
- 2. The reimbursement of fees and costs to be paid pursuant to the parties' Consent Judgment is reasonable under California law; and
- 3. The civil penalty amount to be paid pursuant to the parties' Consent Judgment is reasonable,

IT IS HEREBY ORDERED that judgment be entered in this case, in accordance with the terms of the Consent Judgment, attached hereto as **Exhibit A**.

IT IS SO ORDERED.

Dated: , 2005

JAMES J. MCBRIDE

Hon. James J. McBride
JUDGE OF THE SUPERIOR COURT

1	Stephen S. Sayad, State Bar No. 104866  David D. Stein, State Bar No. 112074					
2	Clifford A. Chanler, State Bar No. 135534					
3	Laralei C. Schmohl, State Bar No. 203319 CHANLER LAW GROUP					
4	655 Redwood Hwy., Suite 216					
5	Mill Valley, CA 94941 Tel.: (415) 380-9222					
	Fax: (415) 380-9223					
6	Attorneys for Plaintiff WHITNEY R. LEEMAN, Ph.D.					
7	WINTINET R. BEEMAN, Th.D.					
8	SUPERIOR COURT OF TH	HE STATE OF CALIFORNIA				
9	IN AND FOR THE COLI	NTY OF SAN FRANCISCO				
10						
11	UNLIMITED CIV	/IL JURISDICTION				
12	WHITNEY R. LEEMAN, Ph.D.,	Consolidated Case No. CGC-03-418025				
13	Plaintiff,	(Consolidated with Case Nos. 418027,				
14	vs.	418030, 418031, 418033, 418034, 418036, 418037, 418039, 418040, 418041, 418042,				
15	ARC INTERNATIONAL NORTH	418044, 418045, 419705, 422636, 422691, 424682 and 429467)				
16	AMERICA, INC., et al.,	STIPULATION AND [PROPOSED]				
17	Defendants.	ORDER RE: CONSENT JUDGMENT				
18	WHITNEY R. LEEMAN, Ph.D.,	Case No. CGC-03-418034				
19	Plaintiff,					
20	vs.					
21	ARTLAND, INC., et al.,					
22	Defendants.					
23		J				
24						

This Stipulation and [Proposed] Order Re: Consent Judgment ("Agreement" or "Consent Judgment") is entered into by and between plaintiff, Whitney R. Leeman, Ph.D. ("Dr. Leeman" or "Leeman") and defendant Artland, Inc. ("Artland") as of September 7, 2004 (the "Effective Date"). Dr. Leeman and Artland are collectively referred to herein as the "Parties" and hereby agree to the following terms and conditions:

### WHEREAS:

- A. Dr. Leeman is an individual residing in Sacramento, California, who seeks to promote awareness of exposures to toxic chemicals and improve human health by reducing or eliminating hazardous substances contained in consumer products;
- B. Artland is alleged to have distributed and sold and/or licensed certain patterns of glassware containing colored designs or decorations with materials that contain lead (the "Listed Chemical"). Artland has described on Exhibit A the glassware products which are covered by this Consent Judgment (with such products collectively referred to hereinafter as the "Products");
- C. On February 6, 2003, Dr. Leeman first served Artland and public enforcement agencies with a document entitled "60-Day Notice of Violation" which provided Artland and such public enforcers with notice that Artland was allegedly in violation of Health & Safety Code § 25249.6 for allegedly failing to warn purchasers that certain products it sells in California expose users to one or more Listed Chemical;
- D. On or about March 6, 2003, Dr. Leeman filed a complaint for civil penalties and injunctive relief entitled Whitney R. Leeman, Ph.D. v. Artland, et al. in the San Francisco County Superior Court, naming Artland as a defendant and alleging violations of Health & Safety Code § 25249.6 on behalf of individuals in California who allegedly have

decoration is fired onto (or otherwise affixed to) the Product. This subsection (1.1(a)) excludes

those Products covered by subsections 1.1(b) (children's products) and 1.1(d) (new designs).

By And Marketed And Sold To Children All Products manufactured after the effective date that are reasonably likely to be sold in California and that are intended or marketed primarily for use by children, shall only use decorating materials containing less than 0.06% lead by weight as measured, at the Artland's option, either before or after the material is fired onto (or otherwise affixed to) the glassware, using a sample size of the materials in question measuring approximately 50-100 mg and a test method of sufficient sensitivity to establish a limit of quantitation of less than 600 ppm. As used in this Consent Judgment, "intended or marketed primarily for use by children" shall be deemed to mean the Products and products analogous thereto (including, but not limited to, small juice glasses, as well as Products decorated with animated characters) which are typically used by children.

1.1(c). Interim Reformulation Requirements For Glassware

Products Manufactured Between January 1, 2005 and December 31, 2005. All Products

manufactured between January 1, 2005 and December 31, 2005, that are reasonably likely to be sold in California shall either:

- i. use decorating materials containing less than 0.06% lead by weight as measured at Artland's option, either before or after the material is fired onto (or otherwise affixed to) the glassware, using a sample size of the materials in question measuring approximately 50-100 mg and a test method of sufficient sensitivity to establish a limit of quantitation of less than 600 ppm; or
- ii. achieve a result of 1.5 ppm or less for lead when tested under the protocol attached as Exhibit B.

This subsection (1.1(c)) excludes those Products covered by subsections 1.1(b) (children's products) and 1.1(d) (new designs).

1.1(d) Final Reformulation	Requirements For	Newly-Designed	Glassware
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Products All glassware Products manufactured after October 31, 2004, that are reasonably likely to be sold in California and that contain *new* designs, shall use only decorating materials containing less than 0.06% lead by weight as measured, at Artland's option, either before or after the material is fired onto (or otherwise affixed to) the glassware, using a sample size of the materials in question measuring approximately 50-100 mg and a test method of sufficient sensitivity to establish a limit of quantitation of less than 600 ppm. As used in this subsection and subsection 1.1(d), "new designs" shall be deemed to mean Products involving any new patterns, colors or designs for which 25% or more of the decoration of an existing pattern, color or design, as measured by decorated surface area, has been modified. (However, if the new color, which is added to an existing design contains a lower lead content than the color it is replacing by at least 50%, then the Product shall not be considered a "new design" on the basis of that change in color.)

### 1.1(e). Final Reformulation Requirements For All Glassware

Products Manufactured After December 31, 2005 All Products manufactured after December 31, 2005, that are reasonably likely to be sold in California shall only use decorating materials containing less than 0.06% lead by weight as measured, at Artland's option, either before or after the material is fired onto (or otherwise affixed to) the glassware, using a sample size of the materials in question measuring approximately 50-100 mg and a test method of sufficient sensitivity to establish a limit of quantitation of less than 600 ppm.

1.1(f). Definition of Reformulated Products Products that satisfy subsections 1.1(a) through 1.1(e), as applicable, are deemed "Reformulated Products."

## 1.2 Warnings Obligations for Non-Reformulated Products

### 1.2(a). Required Warnings

After October 31, 2004, Artland shall not sell or offer for sale in California any Products containing lead, unless clear and reasonable warnings are given in accordance with one or more provisions in section 1.3 below.

1.2(b). Exceptions

The warning requirements set forth in subsection 1.2(a), above, and section 1.3, below, shall not apply to:

- i. any Products manufactured before the effective date; and
- ii. Reformulated Products.

### 1.3 Clear And Reasonable Warnings

A warning is affixed to the packaging, labeling or directly to or on a Product by the manufacturer, importer, or distributor of the Product that states:

WARNING: The materials used as colored decorations on the exterior of this product contain lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Warnings issued for Products pursuant to this subsection shall be prominently placed with such conspicuousness as compared with other words, statements, designs, or devices as to render it likely to be read and understood by an ordinary individual under customary conditions of use or purchase. Any changes to the language or format of the warning required by this subsection shall only be made following: (1) approval of Plaintiff; or (2) approval from the California Attorney General's Office, provided that written notice of at least fifteen (15) days is given to Plaintiffs for the opportunity to comment.

2. Payment Pursuant To Health & Safety Code §25249.7(b). Pursuant to Health & Safety Code §25249.7(b), Artland shall pay \$10,000 in civil penalties within fifteen (15) calendar days of the Effective Date. The penalty payment shall be made payable to "Chanler Law Group In Trust For Dr. Whitney R. Leeman". Those penalty monies received shall be apportioned by Dr. Leeman in accordance with Health & Safety Code § 25192, with 75% of these funds remitted to the State of California's Office of Environmental Health Hazard Assessment and the remaining 25% of these penalty monies retained by Plaintiff as provided by Health and Safety Code § 25249.12(d). The Parties agree that Artland's commitment to market Reformulated Products has been accounted for in establishing the amount of penalties to be

paid pursuant to this paragraph and that reformulation is not otherwise a remedy provided for by law.

- Reimbursement of Attorneys' Fees And Costs. The Parties have reached an accord on the compensation due to Plaintiff and its counsel under the private attorney general doctrine codified at Code of Civil Procedure § 1021.5 for all work performed through the Effective Date of the Agreement. Under the private attorney general doctrine codified at Code of Civil Procedure § 1021.5, Artland shall reimburse Plaintiff and its counsel for fees and costs, incurred as a result of investigating, bringing this matter to Artland's attention, litigating and negotiating a settlement in the public interest. Artland shall pay Plaintiff and its counsel \$24,000 for all attorneys' fees, expert and investigation fees, and litigation costs. The payment shall be delivered to Plaintiff's counsel at the address set forth in Section 11, below, not later than fifteen (15) days following the Effective Date. Payment should be made payable to the "Chanler Law Group."
- Health & Safety Code §25249.7, a noticed motion is required to obtain judicial approval of this Agreement. Accordingly, the Parties agree to use their best efforts to file a *Joint Motion to Approve the Agreement* ("Joint Motion"), the first draft of which Artland shall prepare, within a reasonable period of time after execution of this Agreement (i.e., not to exceed fifteen (15) days of the Effective date, unless otherwise agreed to by Leeman's counsel based on unanticipated circumstances). Leeman's counsel shall prepare a declaration in support of the Joint Motion which shall, *inter alia*, set forth support for the fees and costs to be reimbursed pursuant to Paragraph 3. Artland shall have no additional responsibility to Leeman or Leeman's counsel pursuant to C.C.P. §1021.5 or otherwise with regard to reimbursement of any fees and costs incurred with respect to the preparation and filing of the Joint Motion and its supporting

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declaration or with regard to Leeman's counsel appearing for a hearing or related proceedings thereon.

- 5. Dr. Leeman's Release Of Artland. Dr. Leeman, by this Agreement, on behalf of herself, her agents, representatives, attorneys, assigns and in the interest of the general public, waives all rights to institute or participate in, directly or indirectly, any form of legal action, and releases all claims, liabilities, obligations, losses, costs, expenses, fines and damages, against Artland and its respective distributors, customers, retailers, directors, officers, employees, parents, corporate affiliates (such as sister companies within the same corporate family), successors and assigns, whether under Proposition 65 based on the alleged failure to warn about exposure to lead (or lead compounds) contained in any of the Products. Dr. Leeman, by this Agreement, on behalf of herself, her agents, representatives, attorneys, and assigns, also waives all rights to institute or participate in, directly or indirectly, any form of legal action, and releases all claims, liabilities, obligations, losses, costs, expenses, fines and damages, against Artland and its respective distributors, customers, retailers, directors, officers, employees, parents, corporate affiliates (such as sister companies within the same corporate family), successors and assigns, under Proposition 65 based on the alleged failure to warn about exposure to Listed Chemical in association with the Products.
- 6. Artland's Release Of Dr. Leeman. Artland, by this Agreement, waives all rights to institute any form of legal action against Dr. Leeman and her attorneys or representatives, for all actions or statements made by Dr. Leeman, and her attorneys or representatives, in the course of seeking enforcement of Proposition 65 against Artland in this Action.
- 7. Sales Data. Artland understands that the sales data provided to counsel for Dr. Leeman by Artland was a material factor upon which Dr. Leeman has relied to

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determine the amount of payments made pursuant to Health & Safety Code §25249.7(b) in this Agreement. To the best of Artland's knowledge, the sales data provided is true and accurate. In the event that Dr. Leeman discovers facts that demonstrate to a reasonable degree of certainty that the sales data is materially inaccurate, the parties shall meet in a good faith attempt to resolve the matter within ten (10) days of Artland's receipt of notice from Dr. Leeman of his intent to challenge the accuracy of the sales data. If this good faith attempt fails to resolve Dr. Leeman's concerns, Dr. Leeman shall have the right to re-institute an enforcement action against Artland, for those additional Products, based upon any existing 60-Day Notices of violation served on Artland. In such case, all applicable statutes of limitation shall be deemed tolled for the period between the date Dr. Leeman filed the instant action and the date Dr. Leeman notifies Artland that he is re-instituting the action for the additional Products. Provided, however, that Artland shall have no additional liability, and Dr. Leeman waives any claims that might otherwise be asserted, from the Effective Date until the date that Dr. Leeman provides notice under this Section 7, so long as Artland has complied with the requirements of Paragraph 1.0 for all of the Products, including those numbers of Products additionally discovered.

8. Court Approval. The Parties shall mutually employ their best efforts to support the entry of this Agreement as a Consent Judgment and obtain approval of the Joint Motion by the Court in a timely manner. If, for any reason, any part of this Consent Judgment is not ultimately approved by the Court within twelve (12) months following the Effective Date, the entire Agreement shall, unless otherwise agreed in writing by the Parties, be deemed null and void, and all monies provided to Dr. Leeman or her counsel shall be refunded to Artland within fifteen (15) days after receipt of written notice to Leeman's counsel from Artland pursuant to this Paragraph.

otherwise permitted on shortened time, a noticed motion to enter the Consent Judgment will

1	then be served on the Attorney General's office at least forty-five (45) days prior to the date a						
2	hearing is scheduled on such a motion in the San Francisco Superior Court.						
3	14. Counterparts and Facsimile. This Agreement may be executed in						
4	counterparts and facsimile, each of which shall be deemed an original, and all of which, when						
5	taken together, shall constitute one and the same document.						
6	15. Authorization. The undersigned are authorized to execute this						
7	Agreement on behalf of their respective parties and have read, understood and agree to all of the						
8	terms and conditions of this Agreement.						
9	ARTLAND						
10	DATED: September, 2004						
11	By: William Flaherty, Vice President						
12	DR. WHITNEY LEEMAN						
13	DATED: September, 2004						
14	By:						
15	Dr. Whitney R. Leeman						
16	APPROVED AS TO FORM:						
17	DATED: September 24, 2004 CHANLER LAW GROUP						
18	By:						
19	Clifford A. Chanler Laralei C. Schmohl						
<ul><li>20</li><li>21</li></ul>	Attorneys for Plaintiff DR. WHITNEY R. LEEMAN						
22							
23	DATED: September, 2004 ARCHER NORRIS LLP						
24	By:						
25	Peter McGaw Attorneys for Defendant						
26	ARTLAND						

1	then be served on the Attorney General's office at least forty-five (45) days prior to the date a
2	hearing is scheduled on such a motion in the San Francisco Superior Court.
3	14. Counterparts and Facsimile. This Agreement may be executed in
4	counterparts and facsimile, each of which shall be deemed an original, and all of which, when
5	taken together, shall constitute one and the same document.
6	15. Authorization. The undersigned are authorized to execute this
7	Agreement on behalf of their respective parties and have read, understood and agree to all of the
8 9	terms and conditions of this Agreement.
10	DATED: September, 2004 ARTLAND
11	By:
12	By: William Flaherty, Vice President
13	DATED: September 1/14, 2004 DR. WHITNEY LEEMAN
14 15	By: ( Little 41 WIN Dr. Whitney R. Leeman
16	APPROVED AS TO FORM:
17 18	DATED: September, 2004 CHANLER LAW GROUP
19	By:
20	Laralei C. Schmohl
21	Attorneys for Plaintiff DR. WHITNEY R. LEEMAN
22	A DOMEST ALONDOUS V. D.
23	DATED: September, 2004 ARCHER NORRIS LLP
24	By:
25	Attorneys for Defendant ARTLAND
26	

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ARTLAND, INC.

then be served on the Attorney General's office at least forty-five (45) days prior to the date a					
hearing is scheduled	on such a motion in	the San Francisco Superior Court.			
14.	Counterparts an	d Facsimile. This Agreement may be executed in			
counterparts and facs	imile, each of whi	ch shall be deemed an original, and all of which, when			
taken together, shall o	constitute one and t	he same document.			
15.	Authorization.	The undersigned are authorized to execute this			
Agreement on behalf	of their respective	parties and have read, understood and agree to all of the			
terms and conditions	of this Agreement.	•			
DATED: September	- 7∆ . 2004	ARTLAND			
DATED: September		By: William Haherty William Flaherty, Vice President  DR. WHITNEY LEEMAN  By: Dr. Whitney R. Leeman			
APPROVED AS TO	D FORM:	·			
DATED: Septembe	r, 2004	CHANLER LAW GROUP			
DATED: Septembe	er, 2004	By:Clifford A. Chauler Laralei C. Schmohl Attomeys for Plaintiff DR. WHITNEY R. LEEMAN  ARCHER NORRIS LLP  Peter McGaw Attomeys for Defendant ARTLAND			

CONSENT JUDGMENT

1	•						
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2	hearing is scheduled on such a motion in the San Francisco Superior Court.						
3	14. Counterparts and Facsimile. This Agreement may be executed in						
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5	taken together, shall constitute one and the same document.						
6	15. Authorization. The undersigned are authorized to execute this						
7	Agreement on behalf of their respective parties and have read, understood and agree to all of the						
8	terms and conditions of this Agreement.						
9	ARTLAND 2004						
10	DATED: September, 2004						
11	By: William Flaherty, Vice President						
12							
13	DATED: September, 2004						
14	. By:						
15	Dr. Whitney R. Leeman						
16	APPROVED AS TO FORM:						
17	DATED: September, 2004 CHANLER LAW GROUP						
18	Driftin. deplomatic						
19	By: Clifford A. Chanler						
20	Laralei C. Schmohl Attomeys for Plaintiff						
21	DR. WHITNEY R. LEEMAN						
<u>22</u>	100 ADOTTO ADDITION OF THE PARTY OF THE PART						
23	DATED: September 2004 ARCHER MORRIS LLP						
24							
25	Peter McGaw Attorneys for Defendant ARTLAND						
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### **EXHIBIT A**

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Goblets and Other Glassware products decorated on exterior portions with materials that contains lead (or lead compounds) limited to: Megan's Garden Collection, Love Bird Collection, Purple Passion Collection, St. Croix Collection, Flamingo and Monkey Business Collection, Helios Collection, Loire Collection, Oliver Martini and Compote, 7 Pcs Large Hand painted Rose Champagne Set, S/4 Hand Painted Asst. Balloon including insects, flowers, snowmen, palm trees and grapes motifs.

CONSENT JUDGMENT

### TEST PROTOCOL FOR LEAD RELEASE

Externally Decorated Glassware Externally Decorated Ceramic Mugs

### **Decorated Glassware:**

- 1. Wash glass and dry.
- 2. Totally immerse glass in beaker of acetic acid for 24 hours.
- 3. Measure ppm lead in acid, compare to internal volume of glass.
- 4. This procedure is attached.

<u>Ceramic Mugs</u>: Use the ASTM C 738-81 test modified for total immersion and comparison to internal volume.

<u>Lip and Rim Testing</u>: Not done as such. Since all drinking vessels are totally immersed, the lip and rim area is tested as a part of the whole.

### Samples:

Six samples of each article, i.e., six randomly selected samples of each type decorated sample article. If a manufacturer wishes to distribute multiple different designs, six sample articles of each design should be submitted for testing. Six sample articles of each type design will be subjected to total immersion in acetic acid only.

### Reagents:

- 1. Deionized or distilled deionized water.
- 2. Acetic acid 4% solution by volume; 1 volume of glacial acetic acid to 24 volumes of distilled deionized water.

### Sample Preparation:

Thoroughly cleanse each sample to be tested by immersing in a detergent rinse of a suitable household alkaline detergent. Rinse several times with deionized water followed by several rinses with distilled deionized water. Place the sample articles in a clean aluminum basket, (covered with clean paper towels), or suitable clean rack and allow to air dry. Reduce contamination to a Minimum at all times.

### Procedure for Leaching Lead, (4% Acetic Acid Solution):

Once all the samples have been properly immersed in a suitable household alkaline detergent, subjected to proper rinses and air dried, place each sample individually into an appropriately sized acid cleaned, (lead free), glass beaker or clean Nalgene plastic beaker. Using prenumbered labels, label the outside of each beaker containing a sample and record this number on the worksheet. Add 4% acetic acid to each beaker containing a sample, filling the sample and the space between the sample and the beaker while covering the rim of the sample with the acetic acid solution. Record the volume of leaching solution used in milliliters next to the sample number on the worksheet. (Cover each beaker completely with aluminum foil to shield the contents from light.) Record the time and allow the beakers to remain undisturbed for a period of 24 hours at 20 to 24° C (68 to 75° F). At the end of the 24 hour period mix the contents of each beaker well. To avoid contamination, wear disposable gloves and working with

one beaker at a time, lift up the sample and pour the contents of the sample into the respective beaker. Using a clean disposable plastic pipet, swirl the contents of the beaker to properly mix the contents, drain the pipet into the solution and draw off an aliquot of sample and place it into corresponding specifically numbered clean plastic snap cap test tube. The number on the outside of the beaker and the number on the test tube should correspond. Once the aliquot of sample has been drawn off, rinse the sample under running water, dry the bottom of the sample with a paper towel and transfer the prenumbered label from the outside of the respective beaker to the bottom of the sample.

### Testing:

Perform testing for lead using atomic absorption spectrophotometry as prescribed in ASTM methodology C 738-81 or C 927-80. Run each sample in duplicate along with appropriate standards as well as aliquots of 4% acetic acid solution and distilled deionized water in plastic test tubes. Correct for the blank if necessary. If a sample of unknown goes off scale make necessary dilutions using 4% acetic acid from the same batch prepared for leaching. Record results in ppm using the following calculations:

ug/dl x dilution = ug/dl + 100 = ug/ml Pb x volume of leaching solution used (ml) =

Total ug/Pb : internal volume of the article to 7 mm(ml) = ppm leachable lead relative to the internal volume.

See attached laboratory report forms.

### To Determine The Internal Volume:

Mark each unit 7 mm (1/4") below the rim on the outside of the sample. Fill each unit from a graduated cylinder to approximately 1/4" (6 to 7 mm) of overflowing. Measure and record the internal volume of each unit in milliliters.

### When Reporting Final Results Include The Following:

- 1. The amount of leachable lead in ppm relative to the internal volume of the sample, average of six if possible.
- 2. The distance of decoration below the rim in mm.

### Materials Used In Testing Procedure:

Beakers - Nalgene, polypropylene, graduated 2000 ml.
Test tubes - Polystyrene with friction fit snap cap, sterile, 17x100m
Pipets - Kimble, serological, polystyrene, sterile, 10 ml.x 1/10.
Carboys - Nalgene, 20 liter, for mixing acetic acid solution.
Aluminum Baskets

Utility bath - 18-8 stainless steel, deep drawn, seamless construction with cover; holds 31 quarts. Overall dimensions length 21 3/4", width 13 3/4", depth 8".

Utility bath - same as above, holds 20 quarts.

Gloves - vinyl, disposable.

Hot plate - VWR Scientific, Thermolyne, Type 2200, length 24", width 12" Aluminum foil - to cover samples during the 24 hour period.

### References:

1982 Annual Book Of ASTM Standards, Part 17, <u>Refractories</u>, <u>Glass</u>, <u>Ceramic</u> <u>Materials</u>; <u>Carbon and Graphite Products</u>:

pg. 757-759 ASTM Designation: C 738-81 pg. 999-1002 ASTM Designation: C 927-80

pg. 682 ASTM Designation: C 676-74 (reapproved 1980)

<u>Lead and Cadmium in Decorated Glass Tumblers</u> - Interagency Task Force Report, November 13, 1978.

# LEAD LABORATORY TEST DATA ON EXTERNALLY DECORATED GLASSWARE

## METHOD: IMMERSION IN 4% ACETIC ACID

	PPM LEAD RELATIVE TO THE INTERNAL VOLUME					-
DAIE:	INTERNAL VOLUME OF ARTICLE TO TO YOUR (MI)					
Δ	TOTAL ug/Pb					
mm.	VOLUME OF LEACHING SOLUTION USED (ml)					
AREA:	CONCENTRATION OF LEAD IN LEACHING X SOLUTION (ug/ml Pb)					·
IM LIP AND RIM	SAMPLE				·	·
DISTANCE OF DECORATION FROM LIP AND RIM AREA:	DESCRIPTION OF PATTERN			·	,	
DISTANCE OF D	MANUFACTURER					